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Summary Report

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

NEWLY CONSTRUCTED TOWERS AND A NEW AIR WARNING RADAR AT KAPUSTIN YAR SAM FIRING RANGE USSR (S)



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Newly Constructed Towers and a New Air Warning Radar at Kapustin Yar SAM Firing Range, USSR (S)

(TSR) This report summarizes the emplacement of four new towers and the identifica-	25X1
tion of a new radar at the Kapustin Yar (KY) SAM Firing Range, USSR,	25X1
(TSR) three of the four new towers were seen at the range (Figure 1)—one in radar area B in the launch complex air warning (AW) radar facility; one	25X1
at suspect SA-5 launch area 4 ; and one at suspect SA-5 launch area 5	2:25 X 1
The tower within radar area B (inset, Figure 2) was emplaced on a concrete	25X1
pad. This self-supporting tower is of a lattice framework, wide at the base (Figure 3). Mounted atop the tower is a light-toned cylindrical object,	25X1
A cable connects the tower with a van parked near its base (Figure 2).	25X1 25X1
(TSR a fourth tower was identified, this one at suspect SA-5 launch area 3 Figures 1 and 4). The four towers appear to be identical.	25X1 25X1
(TSR) Prior to emplacement of these towers at all four locations, three support footings were observed equally spaced in a triangular pattern on the concrete pad.	25 X 1
(TSR) The precise function of the towers is unknown at this time. However, the deployment pattern indicates that they may have one of several functions, including electronic countermeasures, radar, or data link. Similar towers will probably be emplaced at suspect SA-5 launch areas 1, 2, and 6 (Figure 1).	
(TSR) a new back-to-back radar was identified on a radar mound at the launch complex AW radar facility, radar area B (inset, Figure 2, and Figure 5).	25 X 1
(TSR) A radar was observed on this mound as early as but it could not be identified at that time as a new radar. This radar has been newly designated by NPIC as the	25X1
KY-EL-05 and consists of two horizontal parabolic reflectors	25X1
Both horizontal reflectors appear to be mounted atop the radar van and without any end-mounted devices attached. the radar van was oriented perpendicular to the long axis of the reflectors. This radar, which appears similar in size and shape to the BACK NET radar, will probably serve as an AW radar for range and azimuth. Also, this radar may serve in conjunction with the new towers at the range.	25X1 25X1
(TSR) During the same time period, three electronics vans were observed at radar area B. They are similar in size and configuration to the electronics vans seen with the Gorkiy-	
type back-to-back radar at the Kapustin Yar Electronics Test Facility The function of these vans with the radar in	25X1 25X1
area B is unknown at this time.	20/(1
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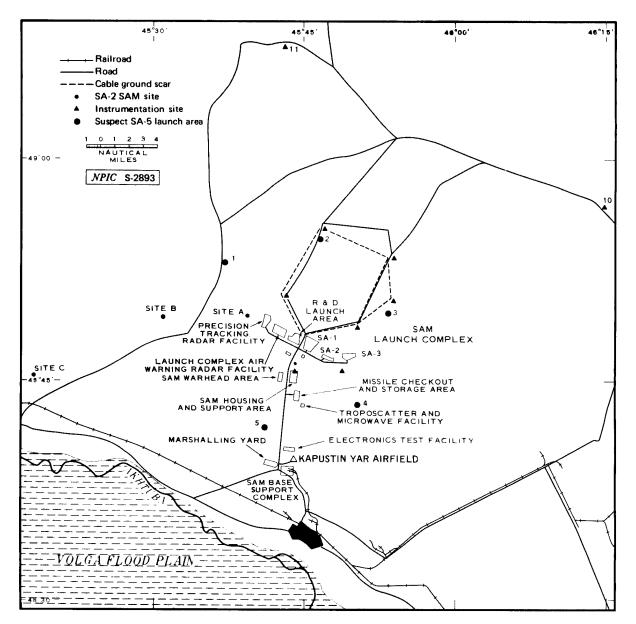
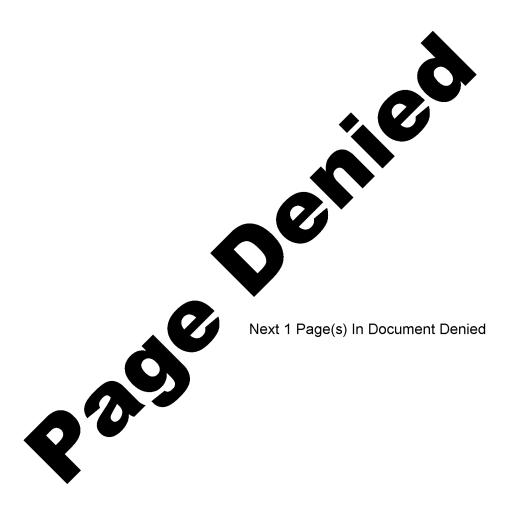


FIGURE 1. KAPUSTIN YAR SAM FIRING RANGE, USSR



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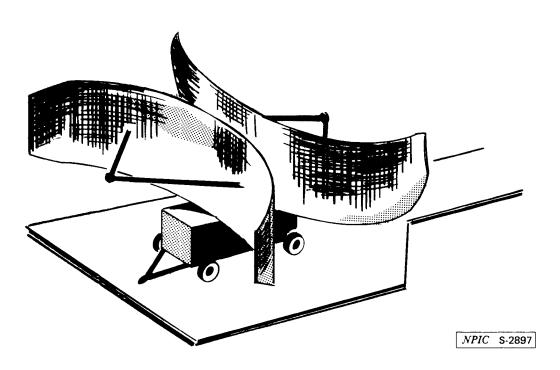


FIGURE 5. CONCEPTUAL DRAWING OF NEW BACK-TO-BACK RADAR (KY-EL-05)

List of Conversion Factors by Classification

UNITS OF LENGTH

UNITS OF MASS

IF YOU HAVE	MULTIPLY BY	TO OBTAIN	IF YOU HAVE	MULTIPLY BY	TO OBTAIN
MILLIMETERS	0.0394	INCHES	KILOGRAMS	2.2046	POUNDS(AVOIR.)
CENTIMETERS	0.3937	INCHES	POUNDS(AVOIR.)	0.4536	KILOGRAMS
INCHES	25.4000	MILLIMETERS	SHORT TONS	0.9072	METRIC TONS
INCHES	2.5400	CENTIMETERS	METRIC TONS	1.1023	SHORT TONS
FEET	0.3048	METERS	METRIC TONS	0.9842	LONG TONS
FEET	0.0003	KILOMETERS	LONG TONS	1.0160	METRIC TONS
YARDS	0.9144	METERS		1.5100	merino rono
METERS	3.2808	FEET			
METERS	0.0005	MILES(NAUTICAL)			
METERS	1.0936	YARDS	UNITS OF VOLUME		UME
KILOMETERS	3280.8400	FEET			
KILOMETERS	0.6214	MILES(STATUTE)	IF YOU HAVE	MULTIPLY BY	TO OBTAIN
KILOMETERS	0.5400	MILES(NAUTICAL)	LITERS	0.2642	GALLONS
MILES(STATUTE)	1.6093	KILOMETERS	LITERS	0.0063	
MILES(NAUTICAL)	6076.1154	FEET	LITERS	0.0003	BARRELS(POL) CUBIC METERS
MILES(NAUTICAL)	1.8520	KILOMETERS	GALLONS	3.7854	LITERS
MILES(NAUTICAL)	1852.0000	METERS	GALLONS	0.1337	CUBIC FEET
			GALLONS	0.0238	BARRELS(POL)
			GALLONS	0.0038	CUBIC METERS
			BUSHELS	0.0352	CUBIC METERS
U	INITS OF AR	EA	CUBIC FEET	7.4805	GALLONS
IF YOU HAVE	MULTIPLY BY	TO OBTAIN	CUBIC FEET	0.1781	BARRELS(POL)
SQUARE CENTIMETERS	0.1550	SQUARE INCHES	CUBIC FEET	0.0283	CUBIC METERS
SQUARE INCHES	6.4516	SQUARE CENTIMETERS	CUBIC YARDS	0.7646	CUBIC METERS
SQUARE FEET	0.0929	SQUARE METERS	BARRELS(POL)	158.9873	LITERS
SQUARE YARDS	0.8361	SQUARE METERS	BARRELS(POL)	42.0000	GALLONS
SQUARE METERS	10.7639	SQUARE FEET	BARRELS(POL)	5.6146	CUBIC FEET
SQUARE METERS	1.1960	SQUARE YARDS	BARRELS(POL)	0.1590	CUBIC METERS
SQUARE METERS	1.0000	CENTARES	CUBIC METERS	1000.0000	LITERS
SQUARE METERS	0.0002	ACRES	CUBIC METERS	264.1721	GALLONS
SQUARE METERS	0.0001	HECTARES	CUBIC METERS	35.3147	CUBIC FEET
ACRES	4046.8564	SQUARE METERS	CUBIC METERS	28.3776	BUSHELS
ACRES	0.4047	HECTARES	CUBIC METERS	6.2898	BARRELS(POL)
HECTARES	10000.0000	SQUARE METERS	CUBIC METERS	1.3080	CUBIC YARDS
HECTARES	2.4711	ACRES			

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